

Please read this manual carefully before installation and keep it for future reference.

Owner & Installation Manual



MRCOOL®

COMFORT MADE SIMPLE

DIY® E Star™ Series

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	Cooling Operation	Heating Operation	Drying Operation
Room Temperature	(17°C~32°C) 63°F~90°F	(0°C~30°C) 32°F~86°F	(10°C~32°C) 50°F~90°F
Outdoor Temperature	(0°C~50°C) 32°F~122°F	(-15°C~24°C) 5°F~75°F	(0°C~50°C) 32°F~122°F
	5°F~122°F / -15°C~50°C (For the models with low ambient cooling system)		

NOTE:

1. Optimum performance will be achieved within these operating temperatures. If air conditioner is used outside of the above conditions, certain safety protection features might come into operation and cause the unit to function abnormally.
2. If the air conditioner runs for a long time in cooling mode and the humidity is high (over 80%), condensed water may drip out of the unit. In this case, set the vertical air flow louver to its maximum angle (vertical toward the floor), and set it to HIGH fan mode.

Manual Operation

Units are equipped with a switch to run emergency operation mode. It can be accessed by opening the front panel. This switch is used for manual operation in case the remote fails to work or maintenance is necessary.

NOTE: The unit must be turned off before operating the manual control button. If the unit is operational, continue pressing the manual control button until the unit is off.

1. Open and lift the front panel up to an angle until it remains fixed with a clicking sound.
2. One press of the manual control switch will lead to the forced AUTO operation. If the switch is pressed twice within five seconds, the unit will operate under forced COOL operation.
3. Close the panel firmly to its original position.

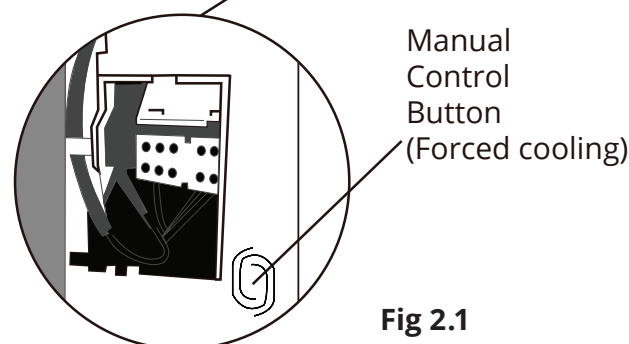
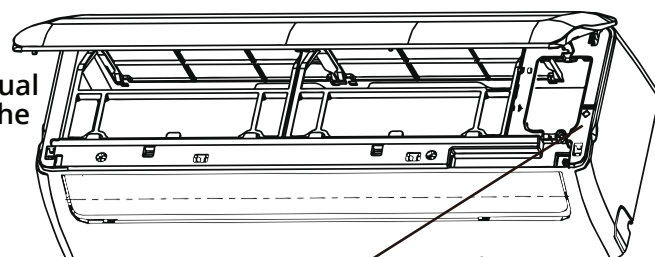


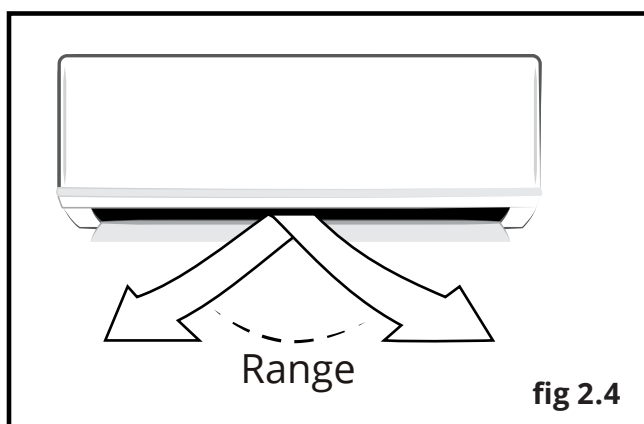
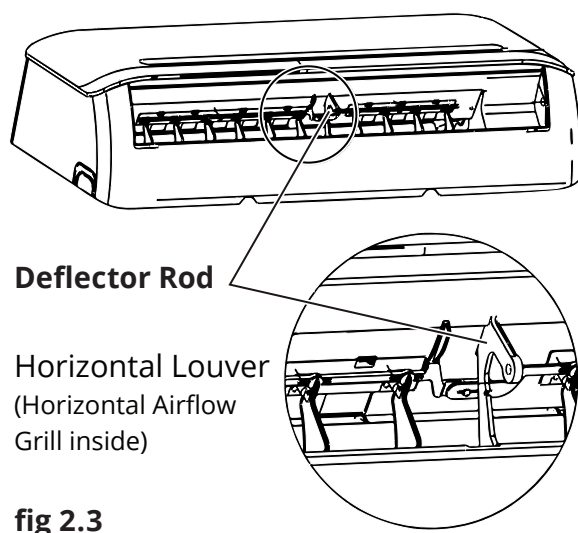
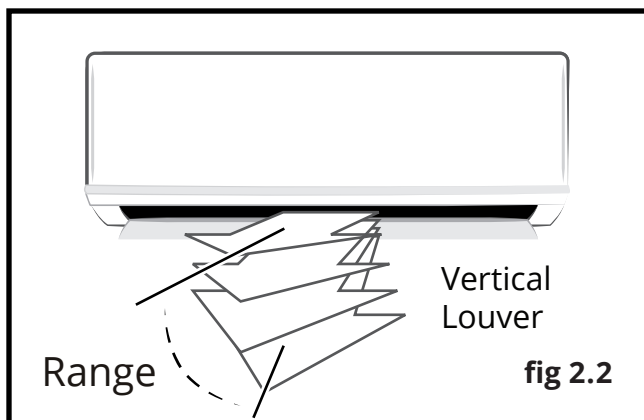
Fig 2.1

! CAUTION

- This switch is used for testing purposes only. Please do not use it unless necessary.
- To restore the remote control operation, use the remote control directly.

Airflow Directional Control

- Adjust the airflow direction properly. Otherwise, it might cause discomfort or uneven room temperatures.
- Adjust the vertical louver using the remote.
- Adjust the horizontal louver manually.



Adjust Vertical (Up / Down) Air Flow using Vertical Louver (fig2.2):

Perform this function while the unit is in operation. Use the remote control to adjust the Vertical Louver / Vertical Air Flow direction. The vertical louver can move in small increments for each press, or continuously swing up and down automatically. Please refer to the "REMOTE CONTROL USER MANUAL" for details.

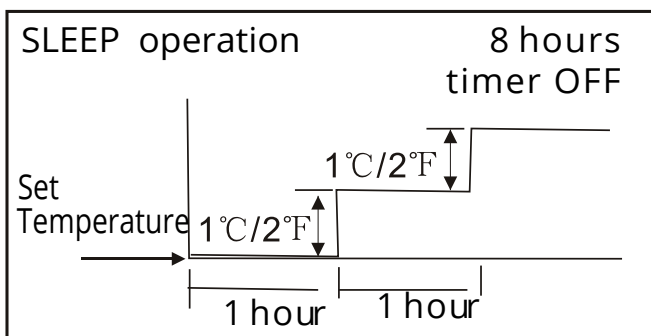
Adjust Horizontal (Left/ Right) Airflow using Horizontal Louver (fig 2.3, fig 2.4):

Move the Deflector Rod manually to adjust the air flow side to side (left / right) as desired.

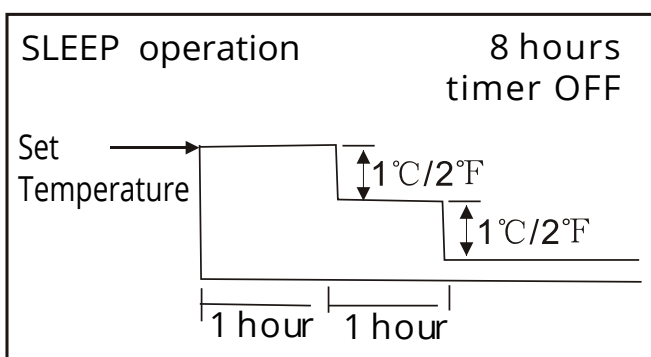
! CAUTION

- ⊘ **DO NOT** Do not put your fingers into the panel of the blower and suction side. The high speed fan inside may cause injury.
 - ⊘ **DO NOT** operate the unit for long periods of time with the airflow direction set downward in cooling or dehumidifying mode. Otherwise, condensation might occur on the surface of the vertical louver causing moisture to drop on to the floor or furnishings .
 - ⊘ **DO NOT** move the vertical louver manually. Otherwise, the vertical louver will be out of sync. IF this happens, cease operation, turn off power to the unit, remove the wireless module from the front cover, turn off power to the circuit (at the breaker), wait for a few seconds and turn power back on at the breaker, reinstall wireless module and power the unit back on.
1. After a quick restart, the vertical louver may remain static for approximately 10 seconds.
 2. Open angle of the vertical louver should not be set too small, as it will restrict airflow and reduce COOLING and HEATING performance.

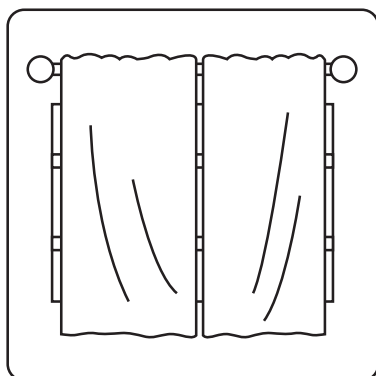
How the air conditioner works



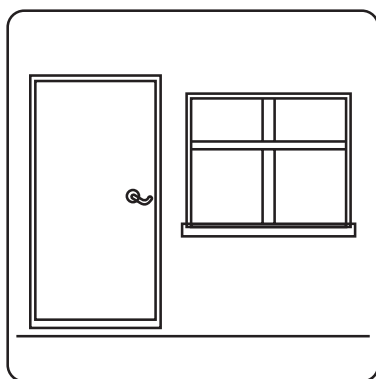
Cooling



Heating



Closing the curtains while heating also helps keep the heat in



Doors and windows should be kept closed

Basic Operation Modes:

AUTO / COOL / DRY / HEAT (Model dependent).

Auto Operation:

When you set the air conditioner in **AUTO** mode, it will automatically select cooling, heating or fan-only operation depending on set temperature and room temperature.

The unit will control the room temperature automatically, according to the temperature point you set.

SLEEP Operation:

When selected, the temperature will increase while cooling or decrease while heating by 1°C / 2°F per hour for the first 2 hours. Thereafter it keeps this new temperature for 6 hours before **SLEEP** mode switches off.

DRYING Operation:

The temperature is regulated while dehumidifying by intermittently switching the cooling or fan-only operation on and off. The fan speed is set to **LOW**.

HEATING Operation:

This unit is a heat pump by design. By reversing the air conditioning process, it absorbs heat from outdoors and transfers it to the indoor unit. As a result, the operating performance and efficiency is reduced as the outdoor air temperature drops. If you feel that the heating performance is insufficient, it is recommended that you supplement heating with other appliances.

Optimal Operation:

To achieve optimal performance, please note the following:

- Adjust the airflow direction correctly, so that it is not towards people or at an extreme angle.
- Adjust the temperature to achieve moderate comfort levels. An excessively low or high temperature setting wastes energy.
- Keep windows and doors closed, as this improves performance.
- Limit energy usage (run time) by using the **TIMER** function.
- Do not put any objects near the air inlets / outlets. Doing so would impair performance and possible shut down the unit.
- Inspect the air filters periodically, and clean them as needed.